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System Comprising an Automotive Fuse and an Analog/Digital Converter

The invention relates to a system comprising an automotive fuse and an analog/digital converter.

Background of the Invention

DE 299 11 177 U1 discloses a system with a measurement interface which detects and digitizes analog signals. This measurement interface is connected to a data bus which transmits the digitized measured values to other function units. The measurement interface for this purpose measures for example a time-variable voltage or time-variable current. This analog measurement signal or a signal proportional to it is then digitized by way of an analog/digital converter (A/D converter).

But in this connection the disadvantage is that special measurement devices, especially measuring shunts, which otherwise have no other functions, are required for this purpose. This measurement device and also the measurement interface require space.

Furthermore, systems are known which detect the voltage drop on a measuring shunt which also performs the function of a fuse. This analog measurement signal is amplified and then relayed to a central measurement system by way of a long signal line.